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	see form PCT/ISA/220			WRITTEN OPINION OF THE INTERNATIONAL SEARCHING AUTHORITY (PCT Rule 43 <i>bis.</i> 1)	
				Date of mailing (day/month/year)	see form PCT/ISA/210 (second sheet)
	Applicant's or agent's file reference see form PCT/ISA/220			FOR FURTHER ACTION See paragraph 2 below	
	nternational application No. PCT/EP2004/011840		International filing date (a 20.10.2004	day/month/year)	Priority date (day/month/year) 24.10.2003
	national Patent Clas		both national classification	and IPC	
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. WRITTEN OPINION OF THE INTERNATIONAL SEARCHING AUTHORITY

International application No. PCT/EP2004/011840

egard to the language, this opinion has been established on the basis of the international application in iguage in which it was filed, unless otherwise indicated under this item. This opinion has been established on the basis of a translation from the original language into the following inguage which is the language of a translation furnished for the purposes of international search inder Rules 12.3 and 23.1(b)). The egard to any nucleotide and/or amino acid sequence disclosed in the international application and sary to the claimed invention, this opinion has been established on the basis of: The of material: The equence listing table(s) related to the sequence listing that of material:
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filed together with the international application in computer readable form.
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Box No. V Reasoned statement under Rule 43*bis*.1(a)(i) with regard to novelty, inventive step or industrial applicability; citations and explanations supporting such statement

1. Statement

Novelty (N)

Yes: Claims

Claims

Inventive step (IS)

Yes: Claims

No: Claims

1-17

1-17

Industrial applicability (IA)

Yes: Claims

1-17

No: Claims

2. Citations and explanations

see separate sheet

Concerning section I, Basis of the report

1 The following documents are referred to in this communication:

D1: US-A1-2002/0041584 D2: US-A-6400698 B1

Concerning Section V. Reasoned statement with regard to novelty, inventive step or industrial applicability

Document **D1** discloses, regarding **claim 1**, a communication network comprising a plurality of transmitting stations and receiving stations for transmitting and receiving signals, said transmitting stations being adapted for transmitting a data signal as a series of data packets, wherein a data packet is scheduled to be transmitted by use of an available transmission resource (see D1, page 1, left-hand column, lines 1 to 60 and page 3, left-hand column, lines 1 to 18), and said receiving stations being adapted for transmitting a reservation indicator for reception by transmitting stations, wherein a reservation indicator transmitted by a receiving station carries: a first reservation indicator value to indicate that a data transmission resource has been reserved by said receiving station for reception of the next data packet of a data signal from a transmitting station transmitting said data signal (see D1, page 1, left-hand column, line 23 to page 1, right-hand column, line 15; page 5, left-hand column, lines 35 to 44) **or**

a second reservation indicator value to indicate that a data transmission resource has not been reserved by said receiving station for reception of the next data packet from said transmitting station or that the last data packet has not been received with acceptable interference form said transmitting station (see D1, page 1, right-hand column, line 39 to page 2, left-hand column, line 15; page 3, right-hand column, lines 8 to 16; page 4, left-hand column, lines 24 to 62).

The difference between D1 and claim 1 consists in that in claim 1 there is provided the additional feature that when a transmitting station receives a reservation indicator carrying a first reservation indicator value transmitted from a receiving station to which no data signal has been transmitted by said transmitting station, said transmitting station will not transmit a data packet by use of the reserved transmission resource.

It would be immediately apparent to the skilled person that the method described in D1 has the drawback that, although it prevents a transmitting station intending to communicate with a mobile station to transmit using a transmission resource wherein interference has occurred, it does not prevent other transmitting stations to start transmission using said transmission resource in the case said transmission resource was available to the first transmitting station, thus causing another source of possible interference.

Therefore, the technical problem is considered as how to reduce the interference occurring between transmissions performed by different transmitting stations re-using the same transmission resources.

In consulting the prior art in the general field of mobile communication devices, the skilled person, wishing to find a solution to overcome the above mentioned technical problem, would come across document D2 (see in particular D2, column 2, lines 32 to 46; column 3, lines 22 to 52; column 6, lines 45 to 67 and figure 3) which discloses the principle, in a mobile communication system, of transmitting a set of indicator values indicating to all the transmitting stations which are able to receive them, that a shared transmission resource is not available for transmission for said stations.

For the skilled person, therefore, starting from the method described in document D1 and being aware both of the above technical problem and of the **principle** of the solution described in D2, it would be obvious to apply said principle to the method of document D1, in order to arrive at a method wherein the above technical problem has been overcome.

The subject-matter of claim 1, therefore, does not involve the required **inventive step** according to Article 33(3) PCT.

- Furthermore the same considerations as made in paragraph 1 above regarding claim 1 are in essence also valid for **independent claims 15, 16 and 17** since **claims 15, 16 and 17** are based on the same feature combination as claim 1 in terms of claims relating to a method and to apparatuses, respectively.
 - The subject-matter of claims **15**, **16** and **17** therefore does not involve the required inventive step according to Article 33(3) PCT.
- Dependent claims 2 to 14 do not contain any additional features which, in combination with the features of any claim to which they refer, meet the requirements of the PCT with respect to inventive step, for the reasons that the subject-matter of said claims is either disclosed in documents D1 or D2 (for claim 2: see D1, page 3, right column, lines 47 to 63 and claim 1; for claim 4: see D2, column 3, line 22 to column 4, line 28 and column 5, lines 40 to 67; for claim 6: see D1, page 2, left column, lines 8 to 15; for claims 10 and 11: see D1, claim 1 and figure 1) or represents simple design details which are generally known to the person skilled in the field of mobile telecommunication devices and related resources management techniques.
- 4 Remarks concerning formal defects of the international application:
 - Contrary to the requirements of Rule 6.2 b) PCT the features cited in the independent claims are not provided with **reference signs** in parentheses to increase the intelligibility of the claims.
 - the independent claim 1 refers to "a reservation indicator" on line 8 and than on line 10 it is stated "wherein a reservation indicator...carries"; it should be unambiguously clarified that said " a reservation indicator" on line 10 is the **same** reservation indicator of line 8 (thus stating "wherein **said** reservation indicator...carries"), as it is **already done** in the other independent claims.